

**SONY®**

PROFESSIONAL FLAT DISPLAY MONITOR

**GXD-L52H1**

PROTOCOL MANUAL  
1st Edition



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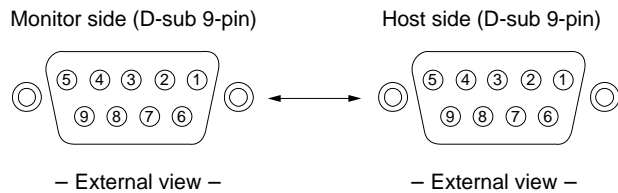
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## 1. Communication Parameters

Communication method	RS-232C
Synchronous method	Asynchronous
Baud rate	9600bps
Character length	8bit
Parity	None
Start bit length	1bit
Stop bit length	1bit
Flow control	None

## 2. Pin Assignment



Pin No.	Function
1	NC
2	TXD
3	RXD
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

Pin No.	Function
1	NC
2	RXD
3	TXD
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

## 3. Communication Data Format

### (a) Control message

No.	Item	Value
1	Header	0x8C: Control
2	Category	0xXX
3	Function	0xXX
4	Data1 (Length)	0xXX
5	Data2 (Data1)	0xXX
:	:	0xXX
:	:	0xXX
X	DataX	0xXX
X+1	Check Sum	0xXX

- \* Check Sum: Sum total of 1 to X. Lower one-byte data is validated when a value exceeds 255 (1byte).
- \* Set the command interval to 500 ms or more when transmitting the Control command continuously.
- \* Set the command interval to 500 ms or more when transmitting the same command (Enquiry) after the Control command.

### (b) Enquiry message

No.	Item	Value
1	Header	0x83: Enquiry
2	Category	0xXX
3	Function	0xXX
4	Data1	0xFF
5	Data2	0xFF
6	Check Sum	0xXX

- \* Check Sum: Sum total of 1 to X. Lower one-byte data is validated when a value exceeds 255 (1byte).

### (c) Answer message

#### ① Control answer

No.	Item	Value
1	Header	0x70: Answer
2	Answer*	0x00: Completed 0x01: Limit Over 0x02: Limit Under 0x03: Command Canceled
3	Check Sum	0xXX

\* 0x00: Completed Packet is correctly received and process is also correctly completed.

0x01: Limit Over Packet is correctly received, but the data value is over the upper limit.

0x02: Limit Under Packet is correctly received, but the data value under the lower limit.

0x03: Command Canceled Packet is correctly received, but the data value is not correct or the request cannot be accepted in the current host state.

\* Check Sum: Sum total of 1 to X. Lower one-byte data is validated when a value exceeds 255 (1byte).

#### ② Enquiry answer (Complete)

No.	Item	Value
1	Header	0x70: Answer
2	Answer	0x00: Completed
3	Return Data Size	0xXX
4	Return Data1	0xXX
:	:	0xXX
:	:	0xXX
X	Return DataX	0xXX
X+1	Check Sum	0xXX

\* 0x00: Completed Packet is correctly received and process is also correctly completed.

\* Return Data: Returns the read value.

\* Check Sum: Sum total of 1 to X. Lower one-byte data is validated when a value exceeds 255 (1byte).

#### ③ Enquiry answer (Command cancel)

No.	Item	Value
1	Header	0x70: Answer
2	Answer	0x03: Command Canceled
3	Check Sum	0x73

0x03: Command Canceled Packet is correctly received, but the data value is not correct or the request cannot be accepted in the current host state.

#### ④ Error answer

No.	Item	Value
1	Header	0xE0: Answer
2	Answer*	0x00: No Function Error 0x01: Check Sum Error 0x02: Data Length Error
3	Check Sum	0xXX

\* 0x00: No Function Error Packet header,category or function code are not included in this protocol.

0x01: Check Sum Error Check sum value or received packet is not correct.

0x02: Data Length Error Packet is correctly received,but the data size is over the upper limit.

## 4. General Function

### (a) Mode Control

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Control	0x8C	0x00	Code Table (1-a) [a]	0x02	Code Table (1-a) [b]	0xXX
Enquiry	0x83			0xFF	0xFF	0xXX

Answer	Header	Answer	Check Sum	
Control	0x70	0x00	0x70	Completed
	0x70	0x01	0x71	Limit Over
	0x70	0x02	0x72	Limit Under
	0x70	0x03	0x73	Command Canceled

Answer	Header	Answer	Return to Data Size	Return Data1	Check Sum	
Enquiry	0x70	0x00	0x02	Code Table (1-a) [b]	0xXX	Completed

#### Code Table (1-a)

[a]Function	[b]Range/Switch Code	Command Control	Enquiry	Standby	Power On
0x00 Power	0x00 OFF	Yes	Yes	Enable	Enable
	0x01 ON				
0x01 Input Select*4	0x08 HD15 RGB	Yes	Yes	Disable	Enable
	0x09 HD15 YUV				
	0x0E OPTION RGB				
	0x0F OPTION COMPONENT				
	0x20 DVI				
	0x30 VIDEO				
	0x31 S-VIDEO				
	0x44 HDMI				
0x02 Force Status Display	0x00 ON	Yes	Yes	Disable	Enable
	0x01 OFF				
0x03 Audio Mute	0x00 OFF	Yes	Yes	Disable	Enable
	0x01 ON				
0x04 Auto Status Display	0x00 ON	Yes	Yes	Enable	Enable
	0x01 OFF				

(Continued)

Code Table (1-a)

[a]Function		[b]Range/Switch Code		Command Control	Enquiry	Standby	Power On
0x06	Color System	0x00	Auto	Yes	Yes	Disable	Enable
		0x01	NTSC				
		0x02	NTSC4.43				
		0x03	PAL				
		0x05	PAL-M				
		0x06	PAL-N				
		0x07	PAL60				
		0x0F	Language				
0x01	English						
0x02	Deutsch						
0x03	Français						
0x04	Español						
0x05	Italiano						
0x10	Index Number	0x01-0xFF		Yes	Yes	Disable	Enable
0x12	Standby Power	0x00	Standard	Yes	Yes	Disable	Enable
		0x01	Low				
0x13	ECO Mode (Power Saving)	0x00	Off	Yes	Yes	Disable	Enable
		0x01	ECO High				
		0x02	ECO Low				
0x14	Speaker Out	0x00	ON	Yes	Yes	Disable	Enable
		0x01	OFF				
0x18	Sync Mode	0x00	H/Comp	Yes	Yes	Disable	Enable
		0x01	Video				
0x1B	Clock Display	0x00	OFF	Yes	Yes	Disable	Enable
		0x01	ON				
0x24	Input Detect (Option)	0x00	FW12 (HD15)	No	Yes	Disable	Enable
		0x02	FW11 (BNC)				
		0x03	Reserved				
		0x05	FW50 (RGB)				
		0x06	FW21 (UART + CTRL-S)				
		0x08	FW15 (HDMI × 2)				
		0x09	FW16 (HD-SDI)				
		0x0A	Reserved				
		0x0B	Reserved				
		0x0C	Reserved				
		0x0D	Reserved				
		0x0E	Reserved				
		0x0F	Not Connect				

(Continued)



Code Table (1-a)

[a]Function		[b]Range/Switch Code		Command Control	Enquiry	Standby	Power On																																																																																																																								
0x26	Auto Shut OFF	0x00	OFF	Yes	Yes	Disable	Enable																																																																																																																								
		0x01	ON					0x27	Auto Screen Adjust	0x00	OFF	Yes	Yes	Disable	Enable	0x01	ON	0x30	PAP	0x00	OFF	Yes	Yes	Disable	Enable	0x01	P&P	0x02	PinP	0x31	Active Picture	0x00	Left (P&P)/Main (PinP)	Yes	Yes	Disable	Enable	0x01	Right (P&P)/Sub (PinP)	0x02	Swap	0x32	Picture Size (P&P)	0x00-0x0E		Yes	Yes	Disable	Enable	0x33	Sub Picture Size (PinP)	0x00	Large	Yes	Yes	Disable	Enable	0x01	Small	0x34	Picture Position (PinP)	0x00	Position1	Yes	Yes	Disable	Enable	0x01	Position2	0x02	Position3	0x03	Position4	0x35	PAP Input Detect (Left/Main)	0x08	HD15 RGB	No	Yes	Disable	Enable	0x09	HD15 YUV	0x0E	OPTION RGB	0x0F	OPTION COMPONENT	0x20	DVI	0x30	VIDEO	0x31	S-VIDEO	0x44	HDMI	0x84	Option Digital1 (HDMI1/SDI)	0x85	Option Digital2 (HDMI2)	0x36	PAP Input Detect (Right/Sub)	0x08	HD15 RGB	No	Yes	Disable	Enable	0x09	HD15 YUV	0x0E	OPTION RGB	0x0F	OPTION COMPONENT	0x20	DVI	0x30	VIDEO	0x31	S-VIDEO	0x44	HDMI	0x84	Option Digital1 (HDMI1/SDI)	0x85	Option Digital2 (HDMI2)		
0x27	Auto Screen Adjust	0x00	OFF	Yes	Yes	Disable	Enable																																																																																																																								
		0x01	ON					0x30	PAP	0x00	OFF	Yes	Yes	Disable	Enable	0x01	P&P			0x02	PinP					0x31	Active Picture	0x00	Left (P&P)/Main (PinP)			Yes	Yes					Disable	Enable	0x01	Right (P&P)/Sub (PinP)	0x02	Swap	0x32	Picture Size (P&P)	0x00-0x0E		Yes	Yes	Disable	Enable	0x33	Sub Picture Size (PinP)	0x00	Large	Yes	Yes	Disable	Enable			0x01	Small					0x34	Picture Position (PinP)	0x00	Position1	Yes	Yes			Disable	Enable					0x01	Position2	0x02	Position3	0x03	Position4	0x35	PAP Input Detect (Left/Main)	0x08	HD15 RGB	No	Yes	Disable	Enable	0x09	HD15 YUV	0x0E	OPTION RGB			0x0F	OPTION COMPONENT					0x20	DVI	0x30	VIDEO	0x31	S-VIDEO	0x44	HDMI	0x84	Option Digital1 (HDMI1/SDI)	0x85	Option Digital2 (HDMI2)	0x36	PAP Input Detect (Right/Sub)	0x08	HD15 RGB	No	Yes	Disable	Enable
0x30	PAP	0x00	OFF	Yes	Yes	Disable	Enable																																																																																																																								
		0x01	P&P																																																																																																																												
		0x02	PinP					0x31	Active Picture	0x00	Left (P&P)/Main (PinP)	Yes	Yes	Disable	Enable	0x01	Right (P&P)/Sub (PinP)	0x02	Swap	0x32	Picture Size (P&P)	0x00-0x0E		Yes	Yes	Disable	Enable	0x33	Sub Picture Size (PinP)	0x00	Large	Yes	Yes	Disable	Enable	0x01	Small	0x34	Picture Position (PinP)	0x00	Position1	Yes	Yes	Disable	Enable	0x01	Position2	0x02	Position3	0x03	Position4	0x35	PAP Input Detect (Left/Main)	0x08	HD15 RGB	No	Yes	Disable	Enable	0x09	HD15 YUV	0x0E	OPTION RGB	0x0F	OPTION COMPONENT	0x20	DVI			0x30	VIDEO											0x31	S-VIDEO	0x44	HDMI	0x84	Option Digital1 (HDMI1/SDI)			0x85	Option Digital2 (HDMI2)					0x36	PAP Input Detect (Right/Sub)	0x08	HD15 RGB			No	Yes					Disable	Enable	0x09	HD15 YUV	0x0E	OPTION RGB	0x0F	OPTION COMPONENT	0x20	DVI	0x30	VIDEO			0x31	S-VIDEO				
0x31	Active Picture	0x00	Left (P&P)/Main (PinP)	Yes	Yes	Disable	Enable																																																																																																																								
		0x01	Right (P&P)/Sub (PinP)																																																																																																																												
		0x02	Swap					0x32	Picture Size (P&P)	0x00-0x0E		Yes	Yes	Disable	Enable	0x33	Sub Picture Size (PinP)	0x00	Large	Yes	Yes	Disable	Enable	0x01	Small	0x34	Picture Position (PinP)	0x00	Position1	Yes	Yes	Disable	Enable	0x01	Position2	0x02	Position3			0x03	Position4					0x35	PAP Input Detect (Left/Main)	0x08	HD15 RGB	No	Yes			Disable	Enable					0x09	HD15 YUV	0x0E	OPTION RGB	0x0F	OPTION COMPONENT	0x20	DVI	0x30	VIDEO	0x31	S-VIDEO	0x44	HDMI			0x84	Option Digital1 (HDMI1/SDI)					0x85	Option Digital2 (HDMI2)	0x36	PAP Input Detect (Right/Sub)	0x08	HD15 RGB			No	Yes							Disable	Enable											0x09	HD15 YUV	0x0E	OPTION RGB	0x0F	OPTION COMPONENT	0x20	DVI	0x30	VIDEO			0x31	S-VIDEO				
0x32	Picture Size (P&P)	0x00-0x0E		Yes	Yes	Disable	Enable																																																																																																																								
0x33	Sub Picture Size (PinP)	0x00	Large	Yes	Yes	Disable	Enable																																																																																																																								
		0x01	Small					0x34	Picture Position (PinP)	0x00	Position1	Yes	Yes	Disable	Enable	0x01	Position2	0x02	Position3	0x03	Position4	0x35	PAP Input Detect (Left/Main)	0x08	HD15 RGB			No	Yes					Disable	Enable	0x09	HD15 YUV	0x0E	OPTION RGB	0x0F	OPTION COMPONENT	0x20	DVI	0x30	VIDEO			0x31	S-VIDEO											0x44	HDMI	0x84	Option Digital1 (HDMI1/SDI)	0x85	Option Digital2 (HDMI2)	0x36	PAP Input Detect (Right/Sub)	0x08	HD15 RGB	No	Yes	Disable	Enable	0x09	HD15 YUV	0x0E	OPTION RGB	0x0F	OPTION COMPONENT	0x20	DVI	0x30	VIDEO			0x31	S-VIDEO													0x44	HDMI			0x84	Option Digital1 (HDMI1/SDI)	0x85	Option Digital2 (HDMI2)																				
0x34	Picture Position (PinP)	0x00	Position1	Yes	Yes	Disable	Enable																																																																																																																								
		0x01	Position2																																																																																																																												
		0x02	Position3																																																																																																																												
		0x03	Position4					0x35	PAP Input Detect (Left/Main)	0x08	HD15 RGB	No	Yes	Disable	Enable	0x09	HD15 YUV	0x0E	OPTION RGB	0x0F	OPTION COMPONENT			0x20	DVI	0x30	VIDEO			0x31	S-VIDEO	0x44	HDMI			0x84	Option Digital1 (HDMI1/SDI)	0x85	Option Digital2 (HDMI2)	0x36	PAP Input Detect (Right/Sub)	0x08	HD15 RGB	No	Yes			Disable	Enable			0x09	HD15 YUV			0x0E	OPTION RGB	0x0F	OPTION COMPONENT	0x20	DVI	0x30	VIDEO	0x31	S-VIDEO			0x44	HDMI					0x84	Option Digital1 (HDMI1/SDI)	0x85	Option Digital2 (HDMI2)																																																		
0x35	PAP Input Detect (Left/Main)	0x08	HD15 RGB	No	Yes	Disable	Enable																																																																																																																								
		0x09	HD15 YUV																																																																																																																												
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		0x84	Option Digital1 (HDMI1/SDI)																																																																																																																												
		0x85	Option Digital2 (HDMI2)					0x36	PAP Input Detect (Right/Sub)	0x08	HD15 RGB	No	Yes	Disable	Enable	0x09	HD15 YUV	0x0E	OPTION RGB	0x0F	OPTION COMPONENT	0x20	DVI	0x30	VIDEO	0x31	S-VIDEO	0x44	HDMI	0x84	Option Digital1 (HDMI1/SDI)	0x85	Option Digital2 (HDMI2)																																																																																														
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		0x0E	OPTION RGB																																																																																																																												
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		0x20	DVI																																																																																																																												
		0x30	VIDEO																																																																																																																												
		0x31	S-VIDEO																																																																																																																												
		0x44	HDMI																																																																																																																												
		0x84	Option Digital1 (HDMI1/SDI)																																																																																																																												
		0x85	Option Digital2 (HDMI2)																																																																																																																												

(Continued)

Code Table (1-a)

[a]Function		[b]Range/Switch Code		Command Control	Enquiry	Standby	Power On
0x40	Screen Saver	0x00	OFF	Yes	Yes	Disable	Enable
		0x01	All White ON				
		0x02	Sweep ON				
0x41	BackGround	0x00	Gray	Yes	Yes	Disable	Enable
		0x01	Dark Gray				
		0x02	Black				
0x43	Back Light	0x00-0x64		Yes	Yes	Disable	Enable
0x44	Logo Illumination	0x00	Logo Off	Yes	Yes	Enable	Enable
		0x01	Logo On (Low)				
		0x02	Logo On (High)				
0x45	Control Mode	0x00	Main + Remocon	Yes	Yes	Disable	Enable
		0x01	Main				
		0x02	Remocon				
		0x03	All Off				
		0x04	Limited*5				
0x46	On Off Timer Mode	0x00	Every Day (Repeat)	Yes	Yes	Enable	Enable
		0x01	Day Of Week				
0x47	On Timer Enable	bit0	Sunday 1: Enable, 0: Disable	Yes	Yes	Enable	Enable
		bit1	Monday 1: Enable, 0: Disable				
		bit2	Tuesday 1: Enable, 0: Disable				
		bit3	Wednesday 1: Enable, 0: Disable				
		bit4	Thursday 1: Enable, 0: Disable				
		bit5	Friday 1: Enable, 0: Disable				
		bit6	Saturday 1: Enable, 0: Disable				
		bit7	Every day 1: Enable, 0: Disable				
0x48	Off Timer Enable	bit0	Sunday 1: Enable, 0: Disable	Yes	Yes	Enable	Enable
		bit1	Monday 1: Enable, 0: Disable				
		bit2	Tuesday 1: Enable, 0: Disable				
		bit3	Wednesday 1: Enable, 0: Disable				
		bit4	Thursday 1: Enable, 0: Disable				
		bit5	Friday 1: Enable, 0: Disable				
		bit6	Saturday 1: Enable, 0: Disable				
		bit7	Every day 1: Enable, 0: Disable				
0x65	IP Setting Mode	0x00	DHCP	Yes	Yes	Enable	Enable
		0x01	Manual				
		0x02	Speed				
0x66	IP Setting Execute	0x00	Shut Down	No	Yes	Enable	Enable
		0x01	IP Setting				
		0x02	NVR Reset				
		0x03	Alarm				

(Continued)

Code Table (1-a)

[a]Function		[b]Range/Switch Code		Command Control	Enquiry	Standby	Power On
0x67	IP Setting Result	0x00	Done	Yes	No	Enable	Enable
		0x01	Error 1 (UART Commu.)				
		0x02	Error 2 (Duplication)				
		0x03	Error 3 (IP Add Setting)				
		0x04	Error 4 (GW Add setting)				
		0x05	Error 5 (DNS1 Setting)				
		0x06	Error 6 (DNS2 Setting)				
		0x07	Error 7 (Sbnt Msk Setting)				
0x68	Speed Setting	0x00	100Mbps/Full Duplex	Yes	Yes	Enable	Enable
		0x01	100Mbps/Half Duplex				
		0x02	10Mbps/Full Duplex				
		0x03	10Mbps/Half Duplex				
		0x04	Auto				
0x70	Input Skip	bit0	HD15	Yes	Yes	Disable	Enable
		bit1	DVI				
		bit2	HDMI				
		bit3	VIDEO				
		bit4	S-VIDEO				
		bit5	Reserved				
		bit6	Reserved				
		bit7	Reserved				
0x71	Default Input	0x00	Last Memory	Yes	Yes	Enable	Enable
		0x01	Option				
0x74	Digital Signal Detect (DVI/HDMI/etc.) *6	0x00	VIDEO	No	Yes	Disable	Enable
		0x01	PC				
0x75	Signal Status*7	0x00	Stable	No	Yes	Disable	Enable
		0x01	Unstable/No Signal				
0x76	VIDEO Signal Detect	0x00	NTSC	No	Yes	Disable	Enable
		0x01	PAL				
0x7A	Logo Position	0x00	Auto	Yes	Yes	Enable	Enable
		0x01	Landscape				
		0x02	Portrait				
0x7D	Power Management Mode*8	0x00	OFF	Yes	Yes	Disable	Enable
		0x01	ON				

Code Table (1-a)

[a]Function	[b]Range/Switch Code	Command Control	Enquiry	Standby	Power On
0x7E On Screen Logo	0x00 OFF	Yes	Yes	Enable	Enable
	0x01 ON (Default)				
	0x02 Reserved				
0x7F LED	0x00 OFF	Yes	Yes	Disable	Enable
	0x01 ON				

\*4: Auto Signal Detect becomes Disable. When Option Slot is connected, Option command is Enable.

\*5: Restricts a part of keys operation following below.

[Remote Commander]

Menu, Picture, Sound, ECO (Power Saving), Contrast+/- , Brightness, Chroma, H Shift, V Shift, V size, PAP

[Main]

Menu

\*6: Digital Signal Status is Enable for Digital Input Signal Detect Function only in Stable.

\*7: Digital Signal or VIDEO Signal is Enable. Return Signal Status of Active Window.

\*8: Only the panel power supply is turned off at the standby when setting it "ON".

## 5. Analog Signal Detect Function

### (a) Mode Control

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x00	Code Table (1-a) [a]	Code Table (1-d)	0xFF	0XX

Answer	Header	Answer	Return to Data Size	Return Data1	Data2	Check Sum
Enquiry	0x70	0x00	0x02	Code Table (1-a) [b]	0xFF	0XX Completed

Code Table (1-a)

[a]Function	[b]Range/Switch Code	Command Control	Enquiry	Standby	Power On
0x78 Analog Signal Detect	0x00 VIDEO	No	Yes	Disable	Enable
	0x01 PC				

Code Table (1-d)

Input Select	
0x00	Main
0x01	Sub
0xFF	Present input

1-a[b]

When input is no signal or not supported signal, return value is Video(0x00).

## 6. Priority Signal Select Function

### (a) Mode Control

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x00	Code Table (2-a) [a]	Code Table (2-d)	0xFF	0XX

Answer	Header	Answer	Return to Data Size	Return Data1	Data2	Check Sum
Enquiry	0x70	0x00	0x02	Code Table (2-a) [b]	0xFF	0XX Completed

Code Table (2-a)

[a]Function	[b]Range/Switch Code	Command Control	Enquiry	Standby	Power On
0x77 Priority Signal Select	0x00 Input1 Auto	No	Yes	Disable	Enable
	0x01 Input1 RGB				
	0x02 Input1 YPbPr				

Code Table (2-d)

Input Select	
0x00	HD15
0x01	Option

### (b) Color Matrix

Syntax	Header	Category	Function	Data1	Data2	Data3	Data4	Check Sum
Control	0x8C	0x00	Code Table (1-b) [a]	0x04	Code Table (1-c)	Code Table (1-b) [b]	Code Table (1-d)	0XX

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x00	Code Table (1-b) [a]	Code Table (1-c)	Code Table (1-d)	0XX

Answer	Header	Answer	Check Sum
Control	0x70	0x00	0x70 Completed
	0x70	0x03	0x73 Command Canceled

Answer	Header	Answer	Return to Data Size	Return Data1	Return Data2	Return Data3	Check Sum
Enquiry	0x70	0x00	0x04	Code Table (1-c)	Code Table (1-b) [b]	Code Table (1-d)	0XX Completed

Code Table (1-b)

[a]Function	[b]Range/Switch Code	Command Control	Enquiry	Standby	Power On
0x1D Color Matrix	0x00 YCbCr	Yes	Yes	Disable	Enable
	0x01 YPbPr				

Code Table (1-c)

Format Select	
0x00	480P
0x01	1080i
0x02	720P
0x03	480i

Code Table (1-d)

Input Select	
0x00	HD15 (Component)
0x01	Option

**(c) Time Control**

Data Set (Month, Date)

Syntax	Header	Category	Function	Data1	Data2	Data3	Check Sum
Control	0x8C	0x00	0x7C	0x03	Month: 0x01-0x0C	Date: 0x01-0x1F	0xXX

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x00	0x7C	0xFF	0xFF	0xFD

Answer	Header	Answer	Check Sum
Control	0x70	0x00	0x70
	0x70	0x01	0x71
	0x70	0x02	0x72
	0x70	0x03	0x73

Answer	Header	Answer	Return to Data Size	Return Data1	Return Data2	Check Sum
Enquiry	0x70	0x00	0x03	Month: 0x00-0x0C	Date: 0x01-0x1F	0xXX

Year Set

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Control	0x8C	0x00	0x7B	0x02	Year: 0x00-0x63	0xXX

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x00	0x7B	0xFF	0xFF	0xFC

Answer	Header	Answer	Check Sum	
Control	0x70	0x00	0x70	Completed
	0x70	0x01	0x71	Limit Over
	0x70	0x02	0x72	Limit Under
	0x70	0x03	0x73	Command Canceled

Answer	Header	Answer	Return to Data Size	Return Data1	Check Sum	
Enquiry	0x70	0x00	0x02	Year: 0x00-0x63	0xXX	Completed

#### Clock Set (Hour, Minute)

Syntax	Header	Category	Function	Data1	Data2	Data3	Check Sum
Control	0x8C	0x00	0x22	0x03	Hour: 0x00-0x17	Minute: 0x00-0x3B	0xXX

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x00	0x22	0xFF	0xFF	0xA3

Answer	Header	Answer	Check Sum	
Control	0x70	0x00	0x70	Completed
	0x70	0x01	0x71	Limit Over
	0x70	0x02	0x72	Limit Under
	0x70	0x03	0x73	Command Canceled

Answer	Header	Answer	Return to Data Size	Return Data1	Return Data2	Check Sum	
Enquiry	0x70	0x00	0x03	Hour: *0x00-0x17	Minute: 0x00-0x3B	0xXX	Completed

#### Clock Set (Week)

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Control	0x8C	0x00	0x23	0x02	Week: Code Table (1-e)	0xXX

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x00	0x23	0xFF	0xFF	0xA4

Answer	Header	Answer	Check Sum	
Control	0x70	0x00	0x70	Completed
	0x70	0x01	0x71	Limit Over
	0x70	0x02	0x72	Limit Under
	0x70	0x03	0x73	Command Canceled

Answer	Header	Answer	Return to Data Size	Return Data1	Check Sum
Enquiry	0x70	0x00	0x02	Week: Code Table (1-e)	0xXX Completed

#### Code Table (1-e)

Week Select	
0x00	Sunday
0x01	Monday
0x02	Tuesday
0x03	Wednesday
0x04	Thursday
0x05	Friday
0x06	Saturday

#### On Timer, Off Timer

Syntax	Header	Category	Function	Data1	Data2	Data3	Check Sum
Control	0x8C	0x00	Code Table (1-f) [a]	0x03	Hour: 0x00-0x17	Minute: 0x00-0x3B	0xXX

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x00	Code Table (1-f) [a]	0xFF	0xFF	0xXX

Answer	Header	Answer	Check Sum	
Control	0x70	0x00	0x70	Completed
	0x70	0x01	0x71	Limit Over
	0x70	0x02	0x72	Limit Under
	0x70	0x03	0x73	Command Canceled

Answer	Header	Answer	Return to Data Size	Return Data1	Return Data2	Check Sum
Enquiry	0x70	0x00	0x03	Hour: 0x00-0x17	Minute: 0x00-0x3B	0xXX Completed



Code Table (1-f)

[a]Function	[b]Range/Switch code	Command Control	Enquiry	Standby	Power On
On Timer					
0x50 Sunday	–	Yes	Yes	Disable	Enable
0x51 Monday	–				
0x52 Tuesday	–				
0x53 Wednesday	–				
0x54 Thursday	–				
0x55 Friday	–				
0x56 Saturday	–				
0x57 Every day	–				
Off Timer					
0x58 Sunday	–	Yes	Yes	Disable	Enable
0x59 Monday	–				
0x5A Tuesday	–				
0x5B Wednesday	–				
0x5C Thursday	–				
0x5D Friday	–				
0x5E Saturday	–				
0x5F Every day	–				

**(d) IP Address Setting**

## IP Address

Syntax	Header	Category	Function	Data1	Data2	Data3	Data4	Data5	Check Sum
Control	0x8C	0x00	0x42	0x05	Address 0 0x00-0xFF	Address 1 0x00-0xFF	Address 2 0x00-0xFF	Address 3 0x00-0xFF	0xXX

## Subnet Mask

Syntax	Header	Category	Function	Data1	Data2	Data3	Data4	Data5	Check Sum
Control	0x8C	0x00	0x61	0x05	Address 0 0x00-0xFF	Address 1 0x00-0xFF	Address 2 0x00-0xFF	Address 3 0x00-0xFF	0xXX

## Gateway Address

Syntax	Header	Category	Function	Data1	Data2	Data3	Data4	Data5	Check Sum
Control	0x8C	0x00	0x62	0x05	Address 0 0x00-0xFF	Address 1 0x00-0xFF	Address 2 0x00-0xFF	Address 3 0x00-0xFF	0xXX

## DNS Primary

Syntax	Header	Category	Function	Data1	Data2	Data3	Data4	Data5	Check Sum
Control	0x8C	0x00	0x63	0x05	Address 0 0x00-0xFF	Address 1 0x00-0xFF	Address 2 0x00-0xFF	Address 3 0x00-0xFF	0xXX

## DNS Secondary

Syntax	Header	Category	Function	Data1	Data2	Data3	Data4	Data5	Check Sum
Control	0x8C	0x00	0x64	0x05	Address 0 0x00-0xFF	Address 1 0x00-0xFF	Address 2 0x00-0xFF	Address 3 0x00-0xFF	0xXX

Answer	Header	Answer	Check Sum	
Control	0x70	0x00	0x70	Completed
	0x70	0x03	0x73	Command Canceled

IP Address ex)

192.128.14.1 → 192 (0xC0) Address 0  
 128 (0x80) Address 1  
 14 (0x0E) Address 2  
 1 (0x01) Address 3

\* IP address command can be carried out even in the standby state.

## Code Table (1-a)

[a]Function	[b]Range/Switch code	Command Control	Enquiry	Standby	Power On
0x42 IP Address	—	Yes	Yes	Enable	Enable
0x61 Subnet Mask	—				
0x62 Gateway Address	—				
0x63 DNS Primary	—				
0x64 DNS Secondary	—				

## 7. Picture/Sound

### (a) Picture/Sound

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Control	0x8C	0x10	Code Table (2-a) [a]	0x02	Code Table (2-a) [b]	0xXX
Enquiry	0x83			0xFF	0xFF	0xXX

Answer	Header	Answer	Check Sum	
Control	0x70	0x00	0x70	Completed
	0x70	0x01	0x71	Limit Over
	0x70	0x02	0x72	Limit Under
	0x70	0x03	0x73	Command Canceled

Answer	Header	Answer	Return to Data Size	Return Data1	Check Sum	
Enquiry	0x70	0x00	0x02	Code Table (2-a) [b]	0xXX	Completed

Code Table (2-a)

[a]Function		[b]Range/Switch code		Command Control	Enquiry	Standby	Power On
0x00	Contrast	0x00-0x64		Yes	Yes	Disable	Enable
0x01	Brightness	0x00-0x64		Yes	Yes	Disable	Enable
0x02	Chroma	0x00-0x32		Yes	Yes	Disable	Enable
0x03	Phase	0x00-0x64		Yes	Yes	Disable	Enable
0x04	Color Temp	0x00	Cool	Yes	Yes	Disable	Enable
		0x01	Neutral				
		0x02	Warm				
		0x03	Custom				
0x09	Sharpness	0x00-0x14		Yes	Yes	Disable	Enable
0x0A	NR	0x00	OFF	Yes	Yes	Disable	Enable
		0x01	Low				
		0x02	Mid				
		0x03	High				
0x0B	Cinema Drive	0x00	Auto	Yes	Yes	Disable	Enable
		0x01	OFF				
0x0C	Dynamic Picture	0x00	OFF	Yes	Yes	Disable	Enable
		0x01	ON				
		0x02	Reserve				
0x0D	Color Correct	0x00	ON	Yes	Yes	Disable	Enable
		0x01	OFF				
0x0E	Gamma Correct	0x00	High	Yes	Yes	Disable	Enable
		0x01	Mid				
		0x02	Low				
0x10	Picture Mode	0x00	Standard	Yes	Yes	Disable	Enable
		0x01	Vivid				
		0x02	Custom				
		0x05	TC Control				
		0x06	Conference				
0x30	Volume	0x00-0x64		Yes	Yes	Enable	Enable
0x31	Treble*1	0x00-0x64		Yes	Yes	Disable	Enable
0x32	Bass*1	0x00-0x64		Yes	Yes	Disable	Enable
0x33	Balance	0x00-0x64		Yes	Yes	Disable	Enable
0x34	Surround	0x00	OFF	Yes	Yes	Disable	Enable
		0x01	Hall				
		0x02	Simulate				
0x35	Sound Mode	0x00	Dynamic	Yes	Yes	Disable	Enable
		0x01	Standard				
		0x02	Reserve				
		0x03	Custom				

(Continued)

Code Table (2-a)

[a]Function	[b]Range/Switch code	Command Control	Enquiry	Standby	Power On	
0x36	Default Volume Set 0x00-0x64	Yes	Yes	Enable	Enable	
0x37	Volume Select 0x00	Yes	Yes	Enable	Enable	
	Last Memory 0x01					Default Setting
0x38	Max Volume Set 0x32	Yes	Yes	Enable	Enable	
	50 0x46					70
	70 0x64					100

\*1 Sound Mode = Custom Only is Enabled.

### (b) Color Temp

Syntax	Header	Category	Function	Data1	Data2	Data3	Check Sum
Control	0x8C	0x10	Code Table (2-b) [a]	0x03	Code Table (2-c)	Code Table (2-b) [b]	0xXX

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x10	Code Table (2-b) [a]	Code Table (2-c)	0xFF	0xXX

Answer	Header	Answer	Check Sum
Control	0x70	0x00	0x70
	0x70	0x03	0x73

Answer	Header	Answer	Return to Data Size	Return Data1	Return Data2	Check Sum
Enquiry	0x70	0x00	0x03	Code Table (2-c)	Code Table (2-b) [b]	0xXX

Code Table (2-b)

[a]Function	[b]Range/Switch code	Command Control	Enquiry	Standby	Power On
0x05	Red Gain 0x00-0x1E	Yes	Yes	Disable	Enable
0x06	Green Gain				
0x07	Blue Gain				

Code Table (2-c)

Format Select	
0x00	Cool
0x01	Neutral
0x02	Warm
0x03	Custom

## 8. Size/Shift

### (a) 8Bits Register

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Control	0x8C	0x20	Code Table (3-b) [a]	0x02	Code Table (3-b) [b]	0xXX
Enquiry	0x83			0xFF	0xFF	0xXX

Answer	Header	Answer	Check Sum
Control	0x70	0x00	0x70
	0x70	0x01	0x71
	0x70	0x02	0x72
	0x70	0x03	0x73

Answer	Header	Answer	Return to Data Size	Return Data1	Check Sum
Enquiry	0x70	0x00	0x02	Code Table (3-b) [b]	0xXX

### Code Table (3-b)

[a]Function	[b]Range/Switch code	Command Control	Enquiry	Standby	Power On	
0x00	H Size	0x00-0x3C	Yes	Yes	Disable	
0x01	H Shift	0x00-0x3C	Yes	Yes	Disable	
0x02	V Size	0x00-0x0A	Yes	Yes	Disable	
0x03	V Shift	0x00-0x3C	Yes	Yes	Disable	
0x04	Aspect	0x00	Wide Zoom (VIDEO Only)	Yes	Yes	Disable
		0x01	Zoom (VIDEO Only)			
		0x02	Full (VIDEO Only)			
		0x04	Normal (PC:Real, VIDEO: 4:3)			
		0x05	Full 1 (PC Only)			
		0x06	Full 2 (PC Only)			
		0x05	Multi Display	0x00	OFF	Yes
0x01	2 × 2					
0x02	3 × 3					
0x03	4 × 4					
0x04	1 × 2					
0x05	1 × 3					
0x06	1 × 4					
0x07	2 × 1					
0x08	3 × 1					
0x09	4 × 1					

(Continued)

Code Table (3-b)

[a]Function		[b]Range/Switch code		Command Control	Enquiry	Standby	Power On
0x06	Auto Pixel Adjust	0xFF	Execute	Yes	No	Disable	Enable
0x07	Dot Phase	0x00-0x1F		Yes	Yes	Disable	Enable
0x0B	Multi Position (2 × 2, 1 × 2, 2 × 1) *1	0x00	Position1	Yes	Yes	Disable	Enable
		0x01	Position2				
		0x02	Position3				
		0x03	Position4				
0x0C	Multi Position (3 × 3, 1 × 3, 3 × 1) *1	0x00	Position1	Yes	Yes	Disable	Enable
		0x01	Position2				
		0x02	Position3				
		0x03	Position4				
		0x04	Position5				
		0x05	Position6				
		0x06	Position7				
		0x07	Position8				
		0x08	Position9				
0x0D	Multi Position (4 × 4, 1 × 4, 4 × 1) *1	0x00	Position1	Yes	Yes	Disable	Enable
		0x01	Position2				
		0x02	Position3				
		0x03	Position4				
		0x04	Position5				
		0x05	Position6				
		0x06	Position7				
		0x07	Position8				
		0x08	Position9				
		0x09	Position10				
		0x0A	Position11				
		0x0B	Position12				
		0x0C	Position13				
		0x0D	Position14				
		0x0E	Position15				
		0x0F	Position16				
0x0E	Over Scan	0x00	OFF	Yes	Yes	Disable	Enable
		0x01	ON				
		0x02	AUTO				
0x0F	Multi Display Output Format	0x00	Tiles	Yes	Yes	Disable	Enable
		0x01	Window				

\*1 Arrangement of Multi Position.

Multi Position (2 × 2)

1	2
3	4

Multi Position (1 × 2)

1
2

Multi Position (2 × 1)

1	2
---	---

Multi Position (3 × 3)

1	2	3
4	5	6
7	8	9

Multi Position (1 × 3)

1
2
3

Multi Position (3 × 1)

1	2	3
---	---	---

Multi Position (4 × 4)

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Multi Position (1 × 4)

1
2
3
4

Multi Position (4 × 1)

1	2	3	4
---	---	---	---

## 9. Status Enquiry

### (a) Model Name

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x30	0x00	0xFF	0xFF	0xB1

Answer	Header	Answer	Return to Data Size	Return Data1	Check Sum
Enquiry	0x70	0x00	0x02	Code Table (4-a)	0xFF Completed

Code Table (4-a)

Format Select
0x26                      GXD-L52H1

### (b) Serial Number

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x30	0x01	0xFF	0xFF	0xB2

Answer	Header	Answer	Return to Data Size	Return Data1	Return Data2	Return Data3	Return Data4	Check Sum
Enquiry	0x70	0x00	0x05	Upper 8bit Data	Middle Upper Data	Middle Lower Data	Lower 8bit Data	0xFF Completed

Return Data1-Data4: 0x00000000-0x0098967F (0,000,000-9,999,999)

### (c) Operation Time

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x30	0x02	0xFF	0xFF	0xB3

Answer	Header	Answer	Return to Data Size	Return Data1	Return Data2	Return Data3	Return Data4	Check Sum
Enquiry	0x70	0x00	0x05	Upper 8bit Data	Middle Upper Data	Middle Lower Data	Lower 8bit Data	0xFF Completed

Return Data1-Data4: 0x00000000-0xD693A3FF (0sec.-3,599,999,99sec.)

### (d) Soft Version (Main CPU)

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x30	0x03	0xFF	0xFF	0xB4

Answer	Header	Answer	Return to Data Size	Return Data1	Return Data2	Check Sum
Enquiry	0x70	0x00	0x03	Upper 8bit Data	Lower 8bit Data	0xFF Completed

Return Data1-Data2: 0x0000-0xFFFF (BCD Format)

ex) In Version0.100, it is set to 01 and 00.



### (e) 8bits Register

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x30	Code Table (4-b)	0xFF	0xFF	0XX

Answer	Header	Answer	Return to Data Size	Return Data1	Check Sum
Enquiry	0x70	0x00	0x02	Code Table (4-b)	0XX Completed

#### Code Table (4-b)\*

Function	Return Data	Unit
0x07	Digital 3.3 V	0x00-0xFF
0x08	Analog 24 V	0x00-0xFF
0x09	Digital 5 V	0x00-0xFF
0x0A	Temp1	0x00-0xFF
0x0B	Temp2	0x00-0xFF
0x0C	Temp3	0x00-0xFF
0x0D	Temp P/S	0x00-0xFF
0x0E	Inverter Alarm	0: Normal, 1: Abnormal
0x11	Shutdown Log	0x00-0xFF
0x12	Digital 3.3 V (Failure)	0x00-0xFF
0x13	Digital 5 V (Failure)	0x00-0xFF
0x14	Analog 12 V (Failure)	0x00-0xFF
0x16	Analog 12 V	0x00-0xFF

\*

- For function 0x07, 0x08, 0x09, 0x10, 0x12, 0x13, 0x14 and 0x16 in the left table

When the display value is 3.0 V, “0x1E” (30) is returned.

- For function 0x0A, 0x0B and 0x0C, 0x0D in the left table

When the display value is 50 °C, “0x32” (50) is returned.

When the display value is –20 °C, “0xEC” is returned.

### (f) Shutdown Log

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x30	0x11	0xFF	0xFF	0xC2

Answer	Header	Answer	Return to Data Size	Return Data1	Check Sum
Enquiry	0x70	0x00	0x02	Shutdown Log Code Table (4-c)	0XX Completed

Return Data1: 0x00-0xFF

#### Code Table (4-c)

Shutdown Information	
bit0	Reserved
bit1	1: FAN Sensor Abnormal 0: Normal
bit2	1: Panel Abnormal 0: Normal
bit3	1: Temperature Sensor Abnormal 0: Normal
bit4	Reserved
bit5	1: Power Abnormal (3.3 V, 5 V) 0: Normal
bit6	1: Analog Power Abnormal (12 V, 9 V, 5 V) 0: Normal
bit7	Reserved

**(g) Auto Input Detect**

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x30	0x30	0xFF	0xFF	0xE1

Answer	Header	Answer	Return to Data Size	Return Data1	Return Data2	Return Data3	Return Data4	Return Data5
Enquiry	0x70	0x00	0x0C	Input1 Input Type Code Table (4-e)	Input2 Input Type Code Table (4-e)	Input3 Input Type Code Table (4-e)	Input4 Input Type Code Table (4-e)	Input5 Input Type Code Table (4-e)

Return Data6	Return Data7	Return Data8	Return Data9	Return Data10
Option1 Option Type Code Table (4-e)	Option1 Input Type Code Table (4-e)	Option2 Option Type Code Table (4-e)	Option2 Input Type Code Table (4-e)	Option3 Option Type Code Table (4-e)

Return Data11	Check Sum
Option3 Input Type Code Table (4-e)	0xXX      Completed

Code Table (4-e)

Input	Input Type (Basic)	Option Type	Input Type (Option)
INPUT1	0x06 RGB/YUV (Analog)		
INPUT2	0x07 DVI		
INPUT3	0x00 No Input		
INPUT4	0x00 No Input		
INPUT5	0x00 No Input		
OPTION1		0x00 Analog Only	0x00 No Input
		0x00 Analog Only	0x03 Video/S-Video
		0x00 Analog Only	0x06 RGB/YUV (Analog)
		0x00 Analog Only	0x07 Video/S-Video/RGB/YUV (Analog)
		0x01 Analog/Com	0x04 RGB
		0x03 Com Only	0x00 No Input
		0x04 Digital Only	0x0E Digital/Digital
		0x04 Digital Only	0x0D Digital
OPTION2		0x00 Analog Only	0x00 No Input
OPTION3		0x00 Analog Only	0x00 No Input

## (h) Auto Plug Detect

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x30	0x32	0xFF	0xFF	0xE3

Answer	Header	Answer	Return to Data Size	Return Data1	Return Data2	Return Data3
Enquiry	0x70	0x00	0x21	Panel Type Code Table (4-h)	H_Resolution (H) Code Table (4-i)	H_Resolution (L) Code Table (4-i)

Return Data4	Return Data5	Return Data6	Return Data7
V_Resolution (H) Code Table (4-i)	V_Resolution (L) Code Table (4-i)	Input Quantity Code Table (4-j)	Input1 Input Type Code Table (4-e)

Return Data8	Return Data9	Return Data10	Return Data11
Input2 Input Type Code Table (4-e)	Input3 Input Type Code Table (4-e)	Input4 Input Type Code Table (4-e)	Input5 Input Type Code Table (4-e)

Return Data12	Return Data13	Return Data14	Return Data15
Option Slot Quantity Code Table (4-j)	Option1 Option Type Code Table (4-e)	Option1 Input Type Code Table (4-e)	Option2 Option Type Code Table (4-e)

Return Data16	Return Data17	Return Data18	Return Data19
Option2 Input Type Code Table (4-e)	Option3 Option Type Code Table (4-e)	Option3 Input Type Code Table (4-e)	(Reserve) 0xFF

Return Data20	Return Data21	Return Data22	Return Data23
(Reserve) 0xFF	(Reserve) 0xFF	(Reserve) 0xFF	(Reserve) 0xFF

Return Data24	Return Data25	Return Data26	Return Data27
(Reserve) 0xFF	(Reserve) 0xFF	(Reserve) 0xFF	(Reserve) 0xFF

Return Data28	Return Data29	Return Data30	Return Data31
(Reserve) 0xFF	(Reserve) 0xFF	(Reserve) 0xFF	(Reserve) 0xFF

Return Data32	Check Sum
(Reserve) 0xFF	0xFF

**(i) Auto Panel Type Detect**

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0x30	0x31	0xFF	0xFF	0xE2

Answer	Header	Answer	Return to Data Size	Return Data1	Check Sum
Enquiry	0x70	0x00	0x02	Code Table (4-h)	0x72 Completed

Code Table (4-h)

Panel Type
0x00 LCD

Code Table (4-i)

H_Resolution	0x0780 (1920)
V_Resolution	0x0438 (1080)

Code Table (4-j)

Input Quantity	0x05
Option Slot Quantity	0x01

Code Table (4-d)

[a]Function	[b]Range/Switch code	Command Control	Enquiry	Standby	Power On
0x00 Model Name	0x26	No	Yes	Enable	Enable
0x01 Serial Number	0x000				
0x02 Operation Time	0x00000000-0x15751BF0 (0sec.-359,996,400sec.)				
0x03 Soft Version (Main)	0x0000-0x9999				
0x07 Digital 3.3 V	0x00-0xFF				
0x08 Analog 24 V	0x00-0xFF				
0x09 Digital 5 V	0x00-0xFF				
0x0A Temp1	0x00-0xFF				
0x0B Temp2	0x00-0xFF				
0x0C Temp3	0x00-0xFF				
0x0D Temp P/S	0x00-0xFF				
0x0E Inverter Alarm	0: Normal, 1: Abnormal				
0x11 Shutdown Log	0x00-0xFF				
0x12 Digital 3.3 V (Failure)	0x00-0xFF				
0x13 Digital 5 V (Failure)	0x00-0xFF				
0x14 Analog 12 V (Failure)	0x00-0xFF				
0x16 Analog 12 V	0x00-0xFF				
0x30 Auto Input Detect					
0x31 Auto Panel Type Detect					

## 10. User Reset

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Control	0x8C	0x50	Code Table (5)	0x02	0xFF	0XX

Answer	Header	Answer	Check Sum
Control	0x70	0x00	0x70 Completed
	0x70	0x03	0x73 Command Canceled

Code Table (5)

Function	Range/Switch code	Command Control	Enquiry	Standby	Power On
0x00	Picture Reset	Yes	No	Disable	Enable
0x01	Audio Reset				
0x02	Size Reset				Size, Shift
0x03	Picture Reset2 (FW50)				Contrast, Brightness, Chroma, Phase
0x04	All Reset				

## 11. Service

### (a) Mode

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Control	0x8C	0xF0	Code Table (6)	0x02	0xFF	0XX

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Enquiry	0x83	0xF0	0x00	0xFF	0xFF	0x71

Answer	Header	Answer	Check Sum
Control	0x70	0x00	0x70 Completed
	0x70	0x03	0x73 Command Canceled

Answer	Header	Answer	Return to Data Size	Return Data1	Check Sum
Enquiry	0x70	0x00	0x02	Code Table (7)	0XX Completed

Code Table (6)

Function	Range/Switch code	Command Control	Standby	Power On	Normal Mode	Service Mode
0x00	Service Mode IN	Yes	Yes	Yes	Enable	Enable
0x01	Service Mode Exit	Yes	Yes	Yes	Disable	Enable

Code Table (7)

Function	Range/Switch code	Command Enquiry	Standby	Power On	Normal Mode	Service Mode
0x00 User Mode		Yes	Yes	Yes	Disable	Enable
0x01 Service Mode						

**(b) Factory Reset**

Syntax	Header	Category	Function	Data1	Data2	Check Sum
Control	0x8C	0x40	Code Table (8)	0x02	0xFF	0xXX

Answer	Header	Answer	Check Sum
Control	0x70	0x00	0x70 Completed
	0x70	0x03	0x73 Command Canceled

Code Table (8)

Function	Range/Switch code	Command Control	Enquiry	Standby	Power On	Normal Mode	Service Mode
0x88 Factory Reset		Yes	No	No	Yes	Disable	Enable

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